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Erratum to: Sharp metastability threshold for an anisotropic bootstrap percolation model (vol 41, pg 1218, 2013)

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Published in:
Annals of probability

DOI:
[10.1214/15-AOP1037](https://doi.org/10.1214/15-AOP1037)

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Document Version
Publisher's PDF, also known as Version of record

Publication date:
2016

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Duminil-Copin, H., & van Enter, A. (2016). Erratum to: Sharp metastability threshold for an anisotropic bootstrap percolation model (vol 41, pg 1218, 2013). *Annals of probability*, 44(2), 1599-1599.
<https://doi.org/10.1214/15-AOP1037>

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ERRATUM TO “SHARP METASTABILITY THRESHOLD FOR AN ANISOTROPIC BOOTSTRAP PERCOLATION MODEL”

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We provide an Erratum, correcting how our main result generalises and correct some steps in the proof.

Although Theorem 1.1 as stated in our paper [1] is essentially correct, the generalisation announced at the end of page 1219 and the beginning of page 1220 to the situation where the site (m, n) gets occupied if $k + 1$ sites among the $2k + 2$ sites $(m + 1, n)$, $(m, n - 1)$ and $(m - k, n), \dots, (m - 1, n)$, $(m + 1, n), \dots, (m + k, n)$ are occupied, is incorrect as stated for $k \geq 2$.

It should read that (in probability) $\frac{\log T}{(1/p)(\log(1/p))^2}$ (which is the correct expression, and should also read like this in the theorem) tends to $\frac{(k-1)^2}{4(k+1)}$. In other words, the constant $\frac{1}{4(k+1)}$ given in our paper on the right-hand side of the unnumbered equation on page 1220 should be replaced by $\frac{(k-1)^2}{4(k+1)}$. We thank Rob Morris for pointing this out to us.

Also, the definition of weakly connected in page 1226 should be modified as follows. Two occupied points $x, y \in \mathbb{Z}^2$ are weakly connected if $x \in y + \mathcal{N}$ or there exists $z \in \mathbb{Z}^2$ such that $x, y \in z + \mathcal{N}$. Moreover, in the definition of $A_k(R_1, R_2)$, we need R_2 to be k -crossed, rather than k -vertically crossed as was written.

We thank Tim Hulshof for pointing this out to us.

REFERENCES

- [1] DUMINIL-COPIN, H. and VAN ENTER, A. C. D. (2013). Sharp metastability threshold for an anisotropic bootstrap percolation model. *Ann. Probab.* **41** 1218–1242. [MR3098677](#)

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Received June 2015.

MSC2010 subject classifications. 60K35, 83B43, 83C43.

Key words and phrases. Bootstrap percolation, anisotropy, sharp threshold, metastability.